

DOCUMENT RESUME

ED 187 520

SE 030 548

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 TITLE Environmental Education in Theory and Practice: An Annotated Bibliography.
 INSTITUTION Council for Environmental Education, London (England).
 PUB DATE 80
 NOTE 13p.
 AVAILABLE FROM Council for Environmental Education, School of Education, University of Reading, London Road, Reading, England RG1 5AQ (40p).
 EDRS PRICE MF01/PC01 Plus Postage.
 DESCRIPTORS *Annotated Bibliographies; *Curriculum Development; *Educational Research; *Educational Theories; Environment; *Environmental Education; International Studies; Literature Reviews

ABSTRACT

Presented are annotations of documents dealing with environmental education collected from the international literature. This document is intended for use by those interested in environmental education curriculum development. It is divided into three parts: (1) theory, (2) practice, and (3) an appendix of addresses, periodicals list, and a list of directories of interest to the environmental educator. (RE)

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ENVIRONMENTAL EDUCATION IN THEORY AND PRACTICE

AN ANNOTATED BIBLIOGRAPHY

compiled by S R Sterling

Price 30p

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FEB 28 1980

Council for Environmental Education is an educational charity founded in 1968 to provide a forum for the exchange of ideas and information on environmental education and to encourage its development.

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Introduction

Whilst its early origins can be traced, the modern development of environmental education as a new approach with an important contribution to education – has taken place in little more than a decade. This bibliography is an attempt to draw together some of the more important sources of information on the evolution in theory and practice of environmental education.

Note: Inevitably, there is a degree of overlap. Some entries are relevant to more than one subsection.

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PART ONE - THEORY

A The Philosophy, Objectives and History of Environmental Education (EE)

Watts, D G	Environmental Studies	Routledge & Kegan Paul	1968	A 'founding' book which widens the concept of environmental studies to include the EE context.
International Working Meeting on Environmental Education in the School Curriculum. Final Report. Nevada	IUCN		1972	Includes famous IUCN definition of EE. Suggested curriculum objectives.
International Course for Teacher Training in Environmental Conservation and Education. Drapers Field Centre	IUCN		1972	Brief recommendations on training teachers in EE.
Final Report. European Working Conference on Environmental Conservation Education. Zurich	IUCN		1972	Includes discussion and recommendations on curricula at school and teacher training levels.
Education for Our Future	Conservation Trust		1973	Suggests and discusses five educational priorities.
Environmental Education: Report by the Scottish HM Inspectors of Schools	HMSO		1974	Report on the theory and practice of EE. Contains recommendations.
Report of International Study Conference on Environmental Education in a Rural and Urban Setting	Council of Europe, Strasbourg		1975	A summary of discussion on draft survey of EE facilities in Europe, plus text of keynote speeches and recommendations.
The International Workshop on Environmental Education. Belgrade	UNESCO		1975	Contains the important 'Belgrade Charter' and comprehensive statements of objectives of EE and implementation recommendations.
Martin, G C and Wheeler, K (eds)	Insights into Environmental Education	Oliver and Boyd	1975	Coverage of history of EE; developments in UK and abroad; philosophy and curriculum issues.

Ward, C and Fyson, A	Streetwork: the Exploding School	Routledge & Kegan Paul	1975	The 'how' and 'why' of urban EE.
Second International Working Meeting on Teacher Training in Environmental Education and Conservation.	Drapers' Field Centre	IUCN	1975	Includes guidelines on role of EE and suggested areas for study.
Report of the National Conference on Environmental Education. Countryside Commission for Scotland, Perthshire		Scottish Education Dept.	1975	Discussion of issues raised by the 1974 'Environmental Education' report by Scottish HMI's.
Saveland, R N (ed)	Handbook of Environmental Education with International Case Studies	John Wiley	1976	Heterogenous collection of essays and studies with American inclination.
Environmental Education: A Statement of Aims for the Formal Education Service		National Association for Environmental Education	1976	An important document outlining objectives in EE (covering intellectual skills, information and attitudes).
International Study Conference on the Role of Regional Ethnology in Environmental Interpretation and Education: Report		Council of Europe	1976	Collection of papers discussing value of regional ethnology to increasing knowledge, understanding and awareness of environmental issues. Includes recommendations.
Final Report. Intergovernmental Conference on Environmental Education. Tbilisi (USSR)		UNESCO	1977	Arguably the most important single document in EE's evolution.
Trends in Environmental Education		UNESCO	1977	Papers given as working documents at the UNESCO 1975 Belgrade International Workshop. They describe the state-of-the art in many parts of the world and important sections deal with informal EE and policies for EE.

Hughes-Evans, D (ed)	Environmental Education: Key Issues of the future. Proceedings of conference held at the College of Technology, Farnborough	Pergamon Press	1977	Considerations of implications of EE. Includes appendix reprinting the Belgrade Charter.
	International Study Conference on EE in a Strictly Urban Setting: Report	Council of Europe	1977	Breaks new ground by recognising and developing urban EE and stresses importance of public participation in environmental planning. Setting up of urban studies centres recommended.
	International Study Conference on EE in the Southern European Region	Council of Europe	1978	A 'mixed bag' of papers examining how EE can help solve problems of internal migration from country to town.
	Seminar on Environmental Education, Royal Society of Arts	RSA	1978	Collection of papers reviewing recent developments and issues in EE in UK.
	Curriculum 11 - 16: Environmental Education. HMI Consultative Document in Red Book Series	DES	1979	Discusses the place and role of EE in the curriculum. An essential paper.
Wheeler, K	Approaches to Empirical Environmental Education in Southern Europe	Council of Europe	1980	Considers the fieldwork and street-work approaches to EE in the light of the special needs of the Mediterranean countries (eg internal migration).

B Subjects and Environmental Education

Terry, Mark	Teaching for Survival	Ballantine	1971	Starts with contention that all education is environmental education.
The Place of Science in Environmental Education		Association for Science Education	1974	Study of relation of EE and science. Includes suggested important concepts.
Perrott, E	Aims and Objectives in the Teaching of Environmental Biology	NAEE	1975	Appraisal of the role of science – especially biology – in environmental teaching context.
The Role of Geography in Environmental Education		Geographical Association	1974	A reasoned attempt to relate geography to EE, but clings to the spatial concept of geography.
Manners, I R and Mikersill, M W (eds)	Perspectives on Environment (Essays requested by the Panel on Environmental Education Commission on College Geography)	American Association of Geographers. Washington	1974	A re-appraisal of geography as the study of the environment.
Wheeler K, and Waites, E (eds)	Environmental Geography; a Handbook for Teachers	Hart Davis Educational	1975	A comprehensive volume which shows how geographical fieldwork can embrace EE objectives. Chapters deal with issue-based studies, biogeography, the study of the built environment, and the philosophy of environmental geography.
Geography and Enviromental Education		Scottish Association of Geography Teachers	1977	Compilation of discussion documents on EE in geography.
Royal Town Planning Institute	The Role of the Planner in Environmental Education	RTPI	1979	Guidelines and information for planners and teachers who wish to help produce a public able to participate in planning.

PART TWO - PRACTICE

C The Syllabus and Curriculum Development

Carson, S McB (ed)	Environmental Education: Principles and Practice	Edward Arnold	1978	Chapters on: environmental concerns; viewpoints on EE from particular disciplines, EE at each level of formal education.
Environmental Education. Guidelines for the Primary and Middle Years		Hertfordshire County Council	1978	Guidelines to teaching in twelve main areas of EE.
Learning and Teaching Schemes in Environmental Education		Schools Council	1978	Resource information sheet summarising Schools Council curriculum development related to EE.
Environmental Education Across the Curriculum		Young People and the Environment Group	1979	Ideas and applications of EE, with case studies.
Schools Council Curriculum Projects				
Published				
Environmental Studies 5 - 13		Hart Davis	1972-3	Using environment to build skills and concepts.
Starting from Maps, Starting from Rocks, Case Studies, Teachers Guide				
Project Environment (8 - 18 years)		Longman	1974	Important groundwork on meaning and implications of 'informed concern'. 'Ethics' includes EE curriculum framework.
Education for the Environment				
Ethics and the Environment				
The School Outdoor Resource Area				
Learning from Trails				
Science 5 - 13		Macdonald Educational	1972+	Based on understanding the environment.
Over 20 teachers guides				
Also a series of sourcebooks 'Using the Environment' by Margaret Collis				

General Studies (15 - 19 years)

Units include:

Population and Environment
Energy
Science and Society
Townscape

Penguin Education/
Longman

1972-9 Designed to improve quality of
general studies programmes.

Other projects with some bearing on environmental education are outlined in leaflet
'Learning and Teaching Schemes in Environmental Education'

Unpublished and/or on-going research project

Environmental Studies: Follow-up work

Unpublished.
Contact A J Young,
Gwent College of Higher
Education, Caerleon

1976-8 Reviewed, and integrated elements
of, earlier Schools Council
Environmental Education projects.

Art and the Built Environment (16 - 19 years)
(Materials to be produced)

Extracts and reports available in BEE

Contact Eileen Adams,
Education Unit, Town &
Country Planning Association,
17 Carlton House Terrace,
London SW1

Largely concerned with urban
environmental appraisal in the
'affective domain'. Interest and
relevance not confined to art.

Geography 16 - 19

Materials in preparation

Contact Michael Naish,
Institute of Education,
University of London,
20 Bedford Way,
London WC1 H 0AL

1976-
1980 Based on 'man and environment'
approach.

**Learning through Science: a Science 5 - 13 Dissemination
and Pupil Material Project**

Contact R Richards,
University of London,
School of Education,
Goldsmith's College,
New Cross, London

1978-
1980 Centre set up to support and
extend development of original
5 - 13 project.

Carson, S McB	Environmental Studies – The Construction of an 'A' level syllabus	NFER	1971	A fascinating verbatim account of discussions held at the Oifley Conference followed by proposals for a syllabus.
A Selection of Mode Three CSE Courses in Environmental Studies. Series 2 Curriculum Guide 1		NAEE	1973	
Courses in Environmental Studies for Mode One CSE Examinations. Series 2 Curriculum Guide 2		NAEE	1975	
Environmental Courses for GCE O, OA, and A Level. Series 2 Curriculum Guide 3		NAEE	1976	
Environmental Courses in Higher Education: Universities. Series 2 Curriculum Guide 4		NAEE	1978	
Environmental Courses in Higher Education: Colleges and Institutes of Higher Education Series 2 Curriculum Guide 6		NAEE	1978	
D Research and the 'State of Play'				
	Human Habitat: How do you want live? Study of public opinion (in connection with United Nations Conference on the Human Environment, Stockholm)	HMSO	1972	A report presented to the UN Stockholm Conference on the Human Environment and contains a section on EE which is one of the best written statements in the EE literature so far.
Berry, P S	National Survey into Environmental Education in Secondary School. Report and Recommendations	Conservation Society/ Conservation Trust	1974	Useful background information to the problem of introducing EE into schools.
Emmelin, L	Environmental Education at University Level	Council of Europe, Strasbourg	1975	Survey of EE in Higher Education.

	Environmental Awareness: a survey of types of facilities used for environmental education and interpretation in Europe	Council of Europe	1976	Classification and definition of facilities for EE introduced by useful chapter on EE objectives related to environmental interpretation and the evolution of environmental awareness. Illustrated by case studies.
	'Environmental Studies in the Middle Years' in Trends in Education, Winter 1977	DES	1977	Finding and conclusions of survey carried out by HMI in 1975-6.
Richmond, J M and Morgan, R F	A National Survey of the Knowledge and Attitudes of Fifth Year Pupils in England	ERIC	1977	A unique piece of research which raises some important conclusions and implications.
	Environmental Education in the UK. Papers prepared for Tbilisi UNESCO Conference	DES	1977	Summarises in general terms the EE 'state of play'.
Withrington, D	National Survey of Out of School Environmental Education for Youth	CoEnCo	1977	Summarises provision for EE outside school given by 24 voluntary organisations.
Williams, M H	1978 Survey into Environmental Education in Secondary Schools	Conservation Trust	1978	Follow up to the Trust's 1974 survey.
Register of Educational Research in UK	73-76 volume 2 76-77 volume 3 77-78	NFER		Worth consulting for research related to aspects of EE.
Environmental Board, DoE	Environmental Education in Urban Areas	HMSO	1979	Report of working party set up to examine 'who does what' in urban EE, and identify gaps. Recommendations include support for urban study centres and higher priority for EE in schools.
10	Council for Urban Studies Centres	CUSC/TCPA	1974) 1976) 1979)	Outline the role and development of Urban Study Centres. Include details on each Centre.

APPENDIX

E Some Reference Addresses

Association for Science Education (ASE)
Council for Environmental Conservation (CoEnCo)
Conservation Trust
Council of Europe

Department of Education and Science
ERIC Clearinghouse for Science, Mathematics and
Environmental Education
Geographical Association (GA)
Her Majesty's Stationery Office (HMSO)
International Union for the Conservation of Nature and
Natural Resources
National Association for Environmental Education

National Foundation for Educational Research
Publishing Co Ltd
Royal Society of Arts
Royal Town Planning Institute (RTPI)
Scottish Association of Geography Teachers

Schools Council
UNESCO

Young People and the Environment Group

College Lane, Hatfield, Herts AL10 9AA
29 Greville Street, London EC1N 8AX
246 London Road, Earley, Reading, Berks RG6 1AJ
Directorate of Press and Information, Council of Europe, 67006,
Strasbourg, Cedex, France
Elizabeth House, York Road, London SE1 7PH
Ohio State University, 1200 Chambers Road, 3rd Floor, Columbus,
Ohio 43212, USA
343 Fulwood Road, Sheffield, South Yorks, S10 38P
49 High Holborn, London WC1V 6HB
CH - 1196 Gland, Switzerland

NAEE (Publications) Room 206, 102 Edmund Street,
Birmingham B3 3DS
Darville House, 2 Oxford Road East, Windsor SL4 1DF

8 John Adam Street, London WC2N 6EZ
26 Portland Place, London W1N 4BE
c/o Mr A Leitch, 1 Sandyloan Crescent, Lauriston,
Falkirk FK2 9NG, Stirlingshire
160 Great Portland Street, London W1N 6LL
7 Place de Fontenoy 75700 Paris, France

c/o Deputy Area Education Officer, South-West Hampshire Area
Education Office, Cannon Street, Lymington SO4 9BR

F Periodicals

Review of Environmental Education Developments (REED))
CEE Newsheet)

Bulletin of Environmental Education (BEE))
Town and Country Planning)
Environmental Education)

Council for Environmental Education (CEE) School of Education,
University of Reading, London Road, Reading RG1 5AQ

Town and Country Planning Association, Education Unit,
17 Carlton House, Terrace, London SW1Y 5AS

NAEE Publications

International

Journal of Environmental Education

EE Report

Connect (Unesco-Unep EE Newsletter) free

4000, Albemarle Street, NW Suite 302, Washington DC 20016. USA

Suite 206, 1925 K Street, NW Washington DC 20006, USA

UNESCO, Paris

G Directories

Directory of Environmental Literature and Teaching Aids

Guide to Resources in Environmental Education

The Environment: Sources of Information for Teachers

International Directory of Institutions active in the field of
Environmental Education

International Director of Individuals involved in
Environmental Education

Directory of Organisations concerned with the
Environment in Europe

Council for Environmental Education

by P S Berry, Conservation Trust

DES (Apply Room 2/11)

UNESCO, Paris

UNESCO, Paris

European Information Centre for Nature Conservation, BP 431,
67006 Strasbourg, Cedex, France

Note: Most of the publications referred to in this bibliography may be inspected at the CEE's offices.

ISBN 0 906711 05 3